Casedhole Solutions

DUAL INDUCTION LOG

Company	L.D. DRILLING, INC.
Well	#1 YORK 25C
Field	WILDCAT
County	GOVE
State	KANSAS

Company L.D. DRILLING, INC.

Well #1 YORK 25C

Field WILDCAT

County GOVE State KANSAS

Location: API # : 15-063-22281-0000

1815' FSL & 2310' FWL

SEC 25 TWP 15S RGE 31W

Permanent Datum	GROUND LEVEL	Elevation	2722
Log Measured From	KELLY BUSHING 5' A.G.L.		
Drilling Measured From	KELLY BUSHING		

Other Services: CDL/CNL, MEL

Elevation: K.B. 2727, D.F. 2725, G.L. 2722

Date	1/17/16			
Run Number	ONE			
Depth Driller	4507			
Depth Logger	4509			
Bottom Logged Interval	4507			
Top Log Interval	00			
Casing Driller	8 5/8" @ 347			
Casing Logger	326			
Bit Size	7 7/8"			
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 1100 PPM		
Density / Viscosity	9.1/59			
pH / Fluid Loss	10.5/6.8			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	1.2 @ 40F			
Rmf @ Meas. Temp	.90 @ 40F			
Rmc @ Meas. Temp	1.4 @ 40F			
Source of Rmf / Rmc	MEASUREMENT			
Rm @ BHT	.40 @ 120F			
Time Circulation Stopped	2 HOURS			
Time Logger on Bottom				
Maximum Recorded Temperature	120F			
Equipment Number	4010			
Location	HAYS, KANSAS			
Recorded By	JASON CAPPELLUCCI			
Witnessed By	KIM SHOEMAKER			

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Comments

THANK YOU FOR USING CASEDHOLE SOLUTIONS, HAYS, KS. (785) 628-6395

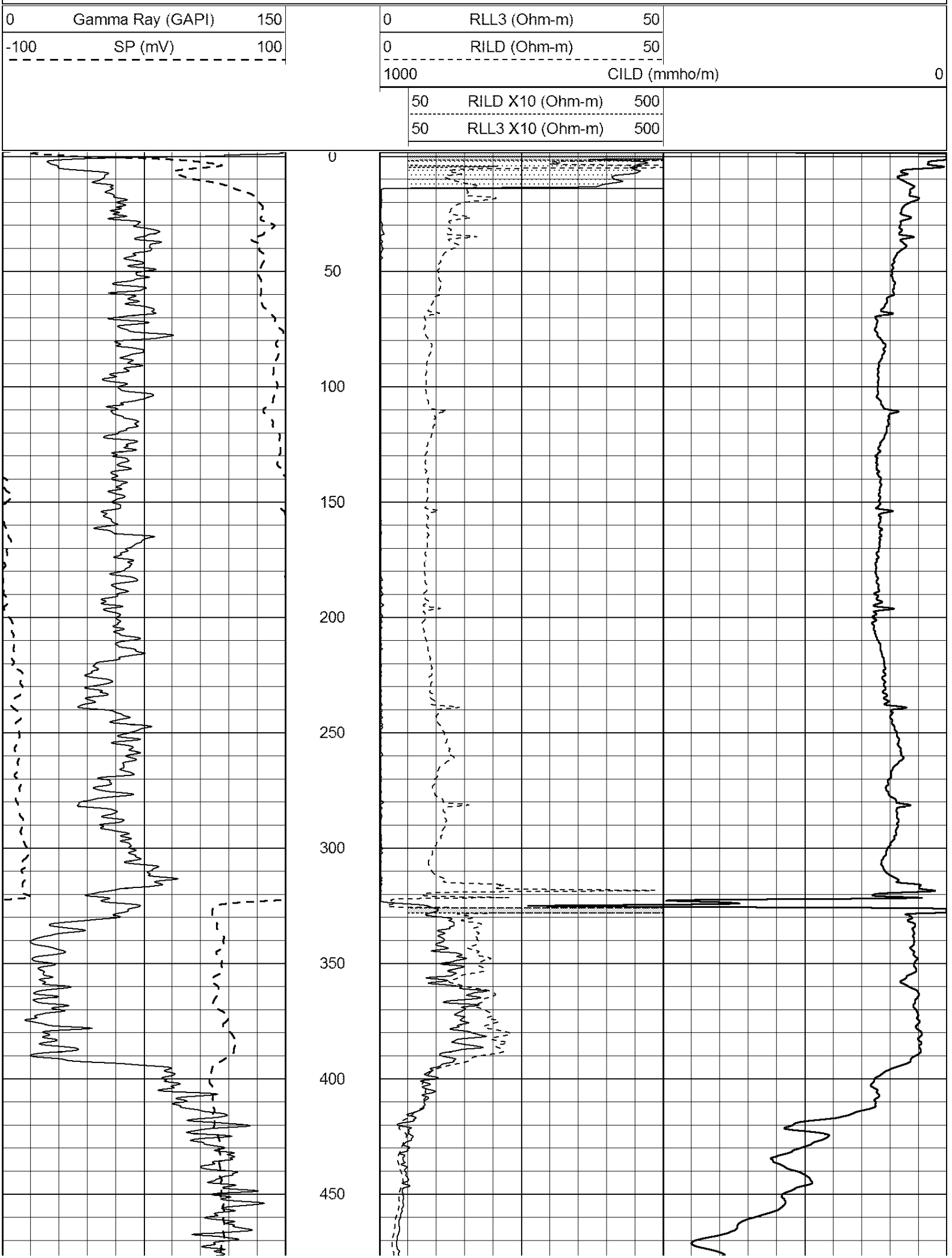
DIRECTIONS:

HEALY, KS. - 1 WEST TO BISON RD. - 7 NORTH TO 290 RD.

(ROAD JOGS WEST TWO TIMES) - 1 WEST ON 290 RD TO WILLOW RD.

2 NORTH - WEST & NORTH INTO

Database File:	30891ddn.db
Dataset Pathname:	pass3.3
Presentation Format:	_dil2
Dataset Creation:	Sun Jan 17 19:39:37 2016 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:600


Charted by:
Depth in Feet scaled 1:600
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-100 SP (mV) 100
0 RLL3 (Ohm-m) 50
0 RILD (Ohm-m) 50
1000 CILD (mmho/m) 0
50 RILD X10 (Ohm-m) 500
50 RLL3 X10 (Ohm-m) 500
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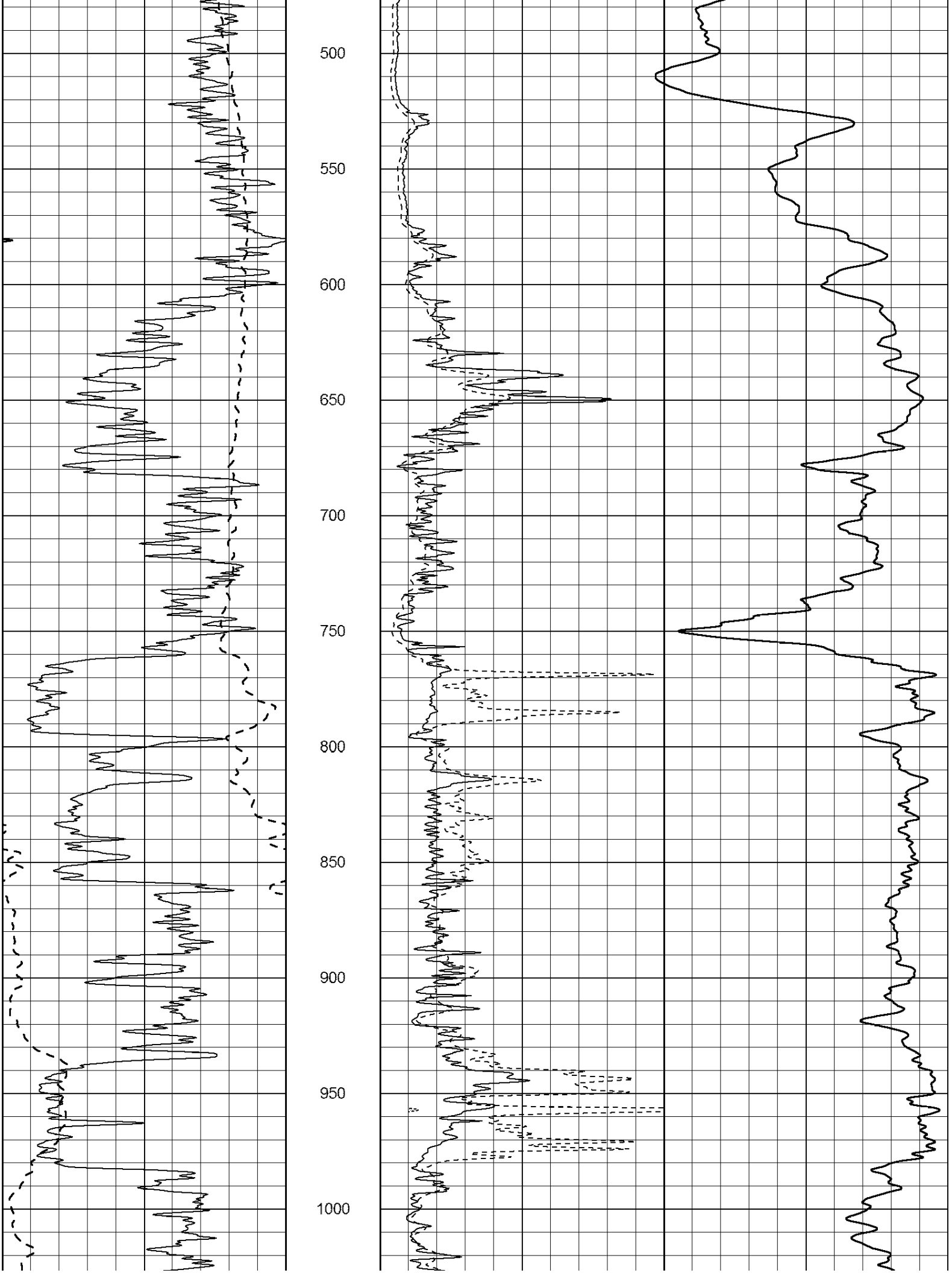
50
100
150
200
250
300
350
400
450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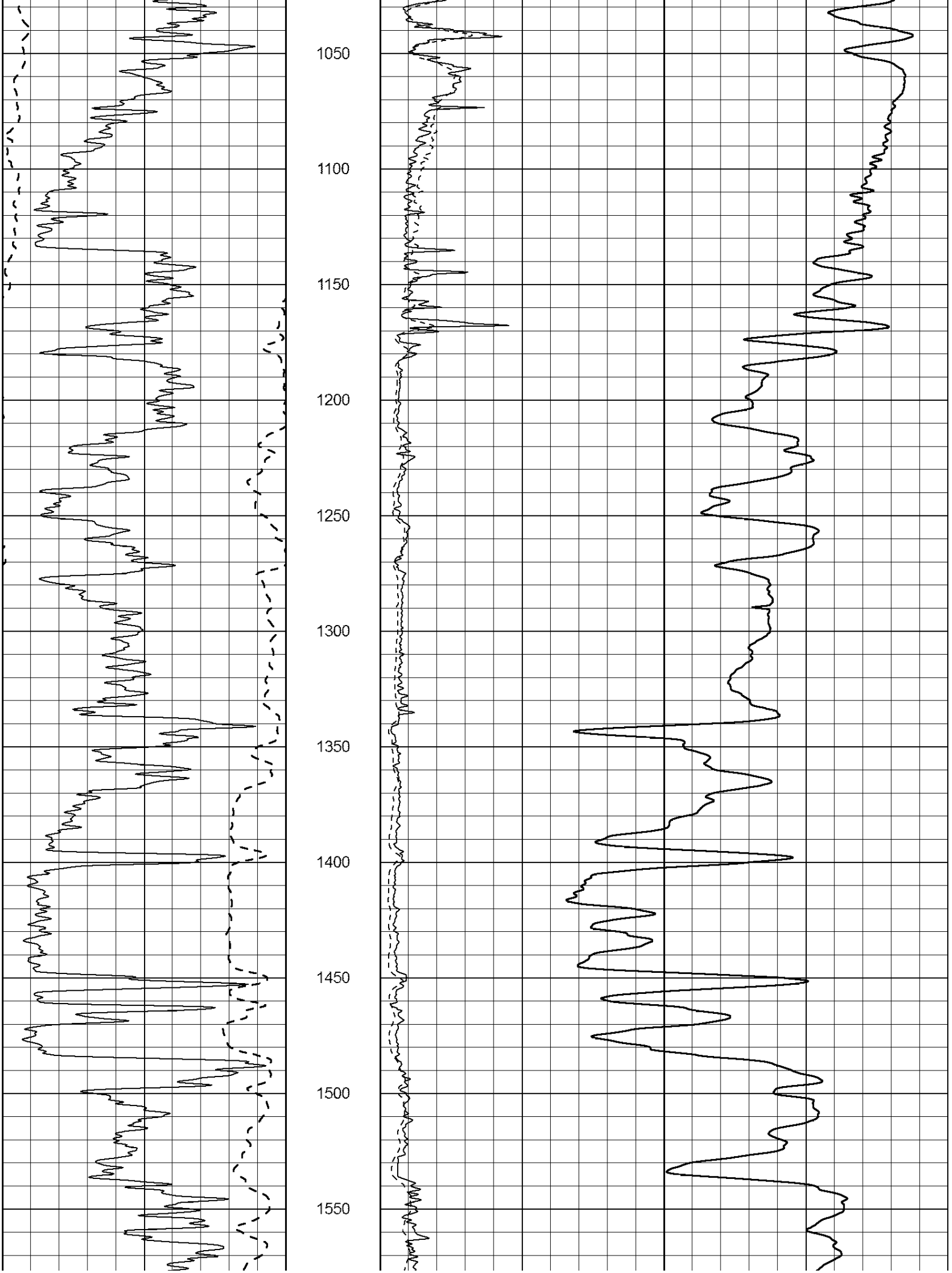
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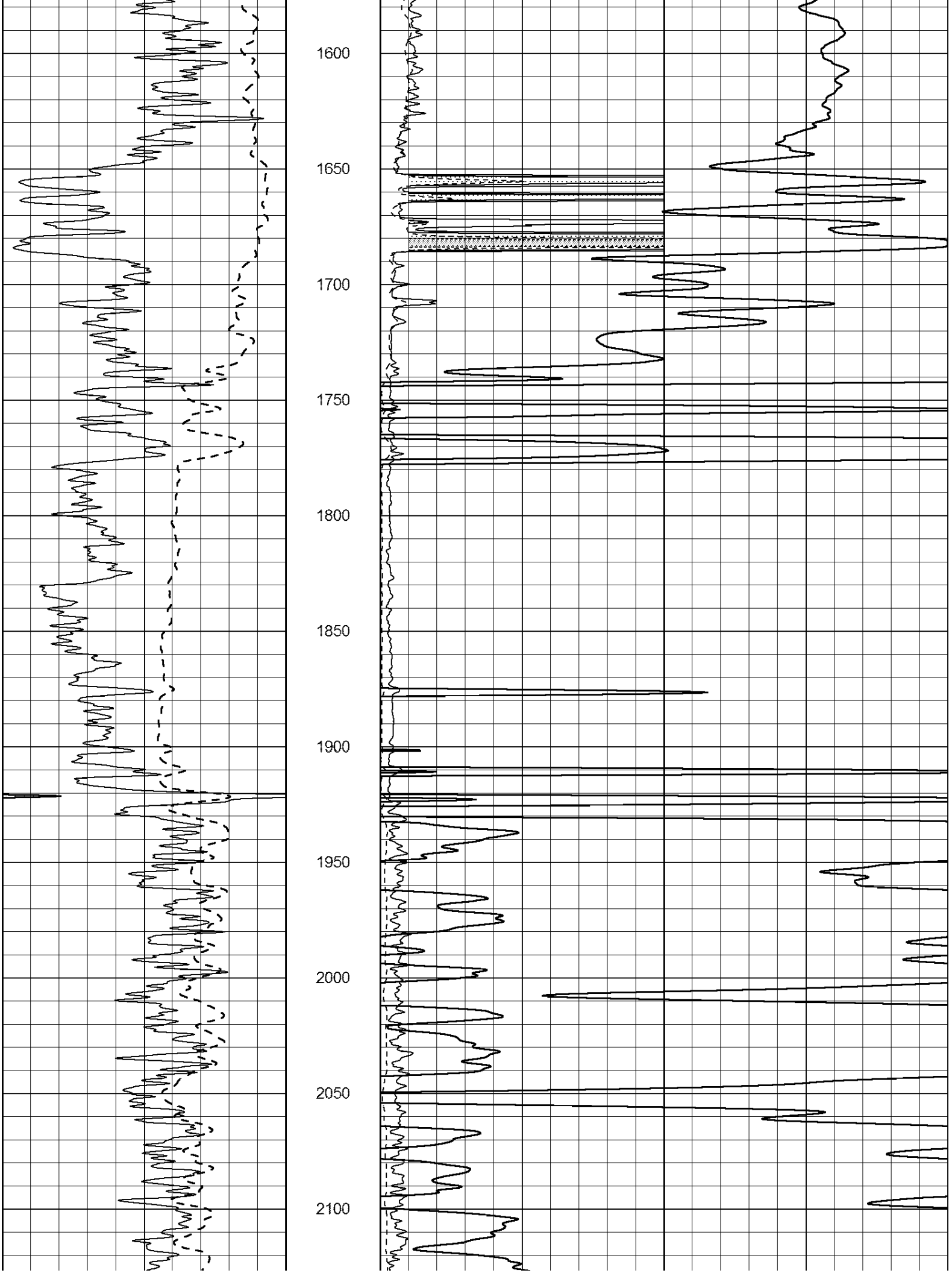
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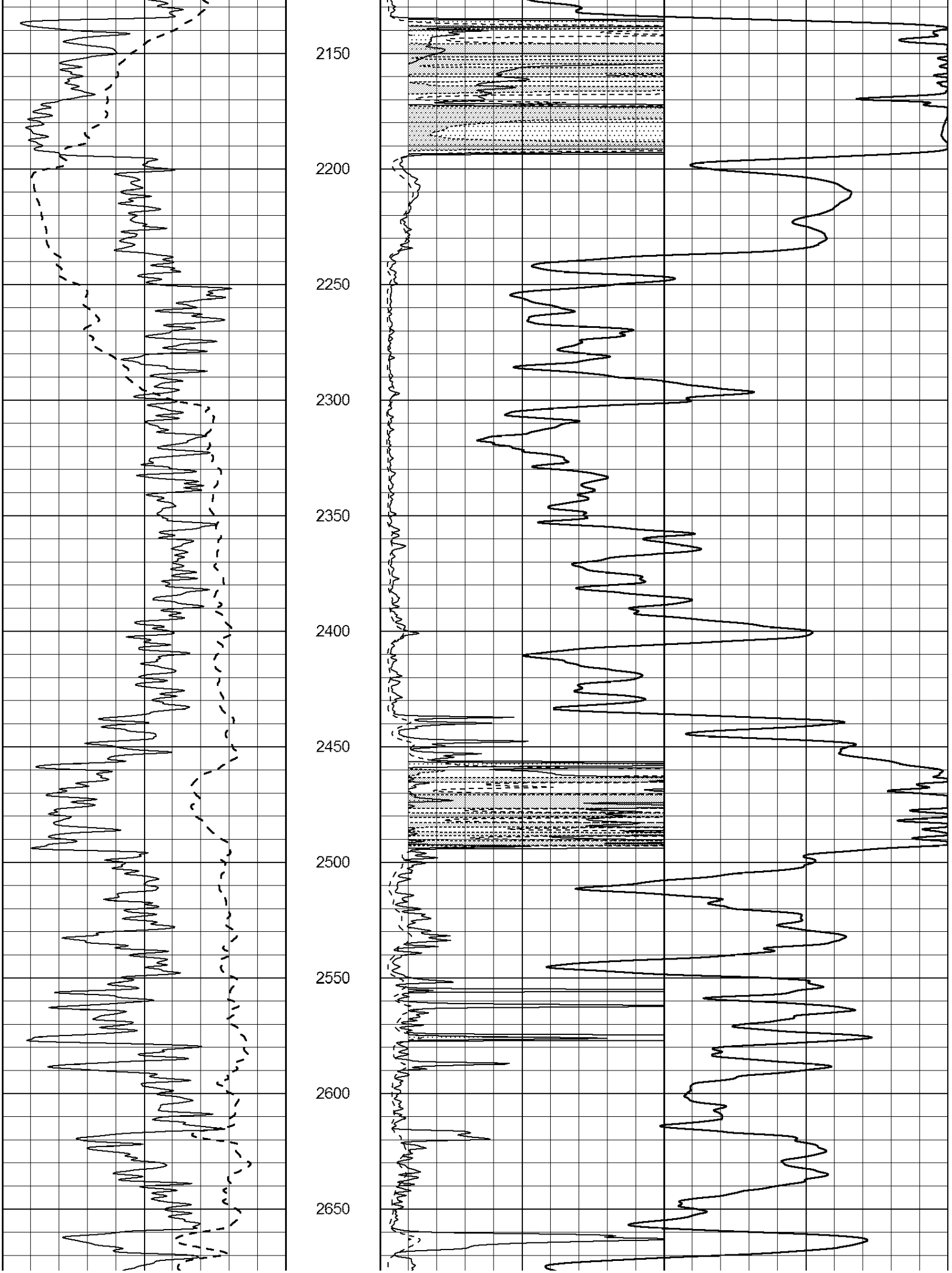
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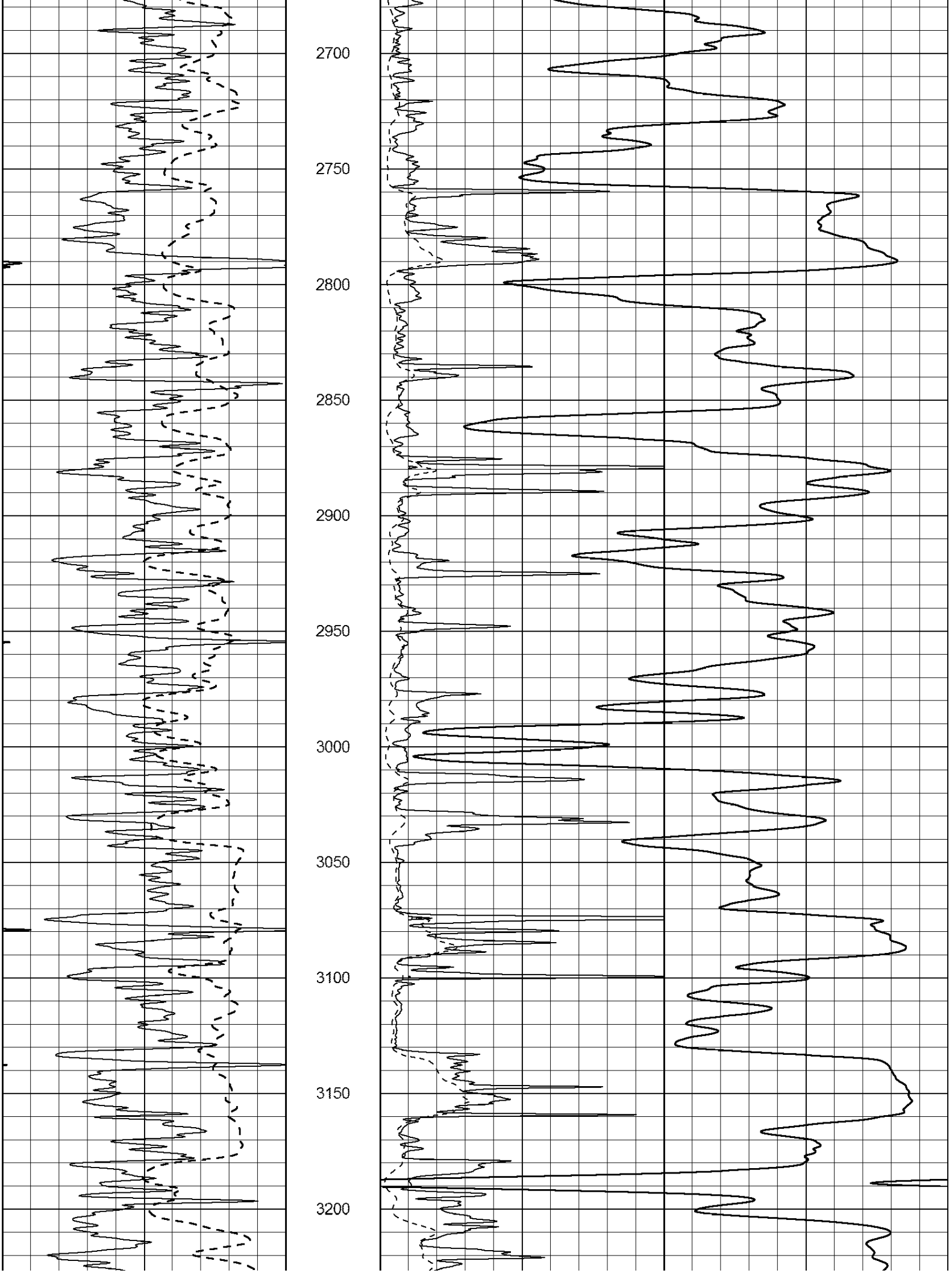
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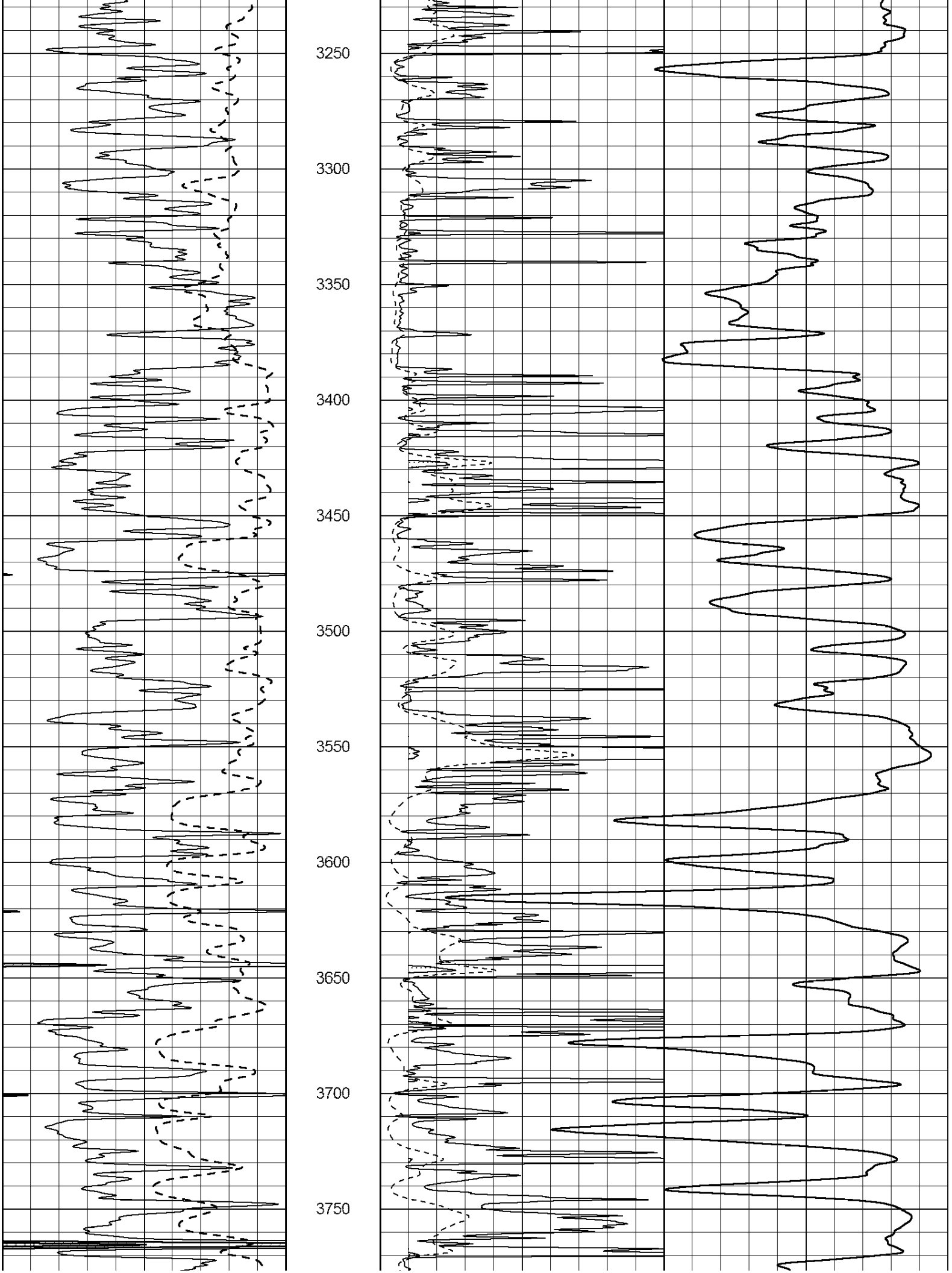
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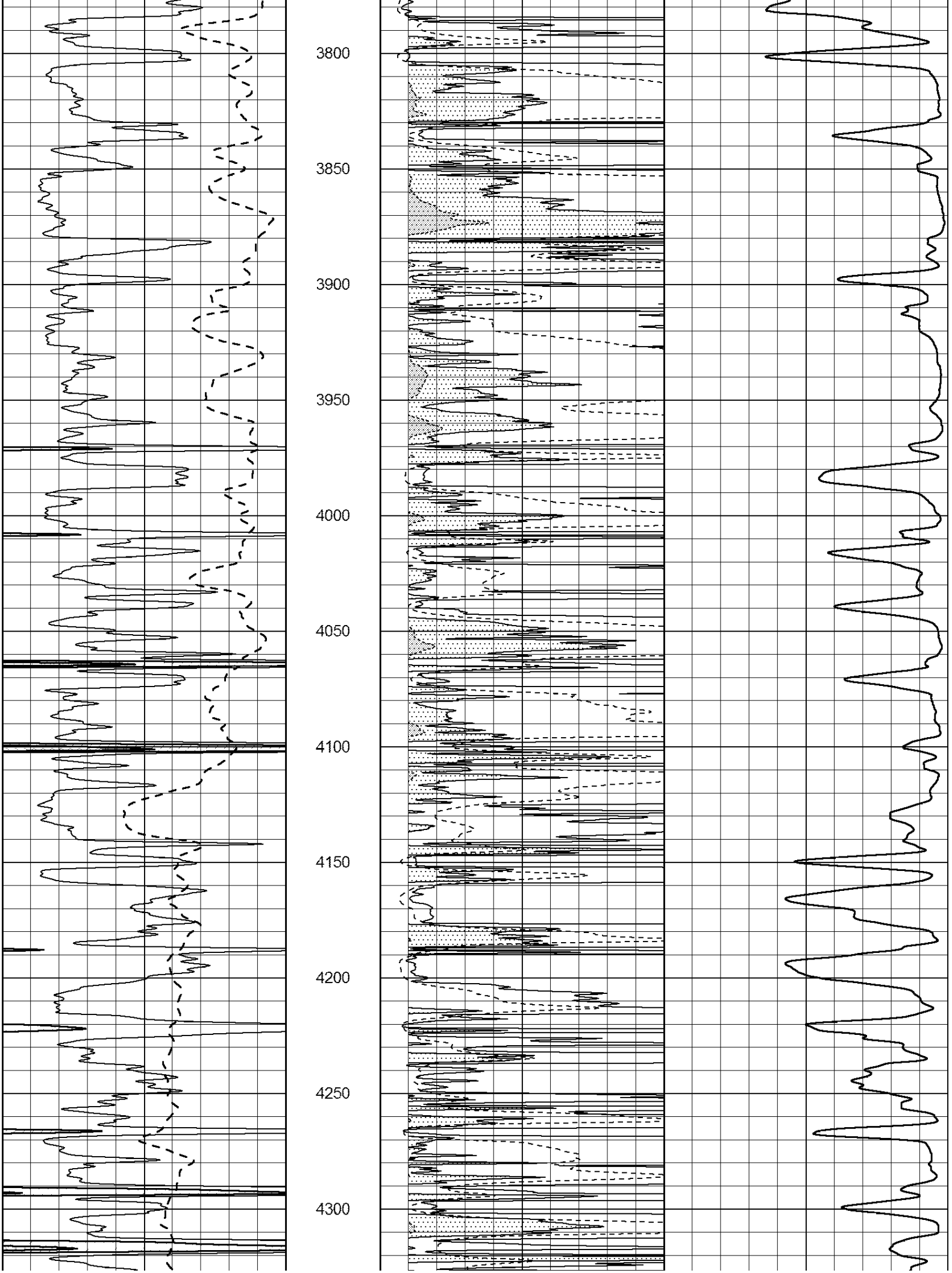
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4200
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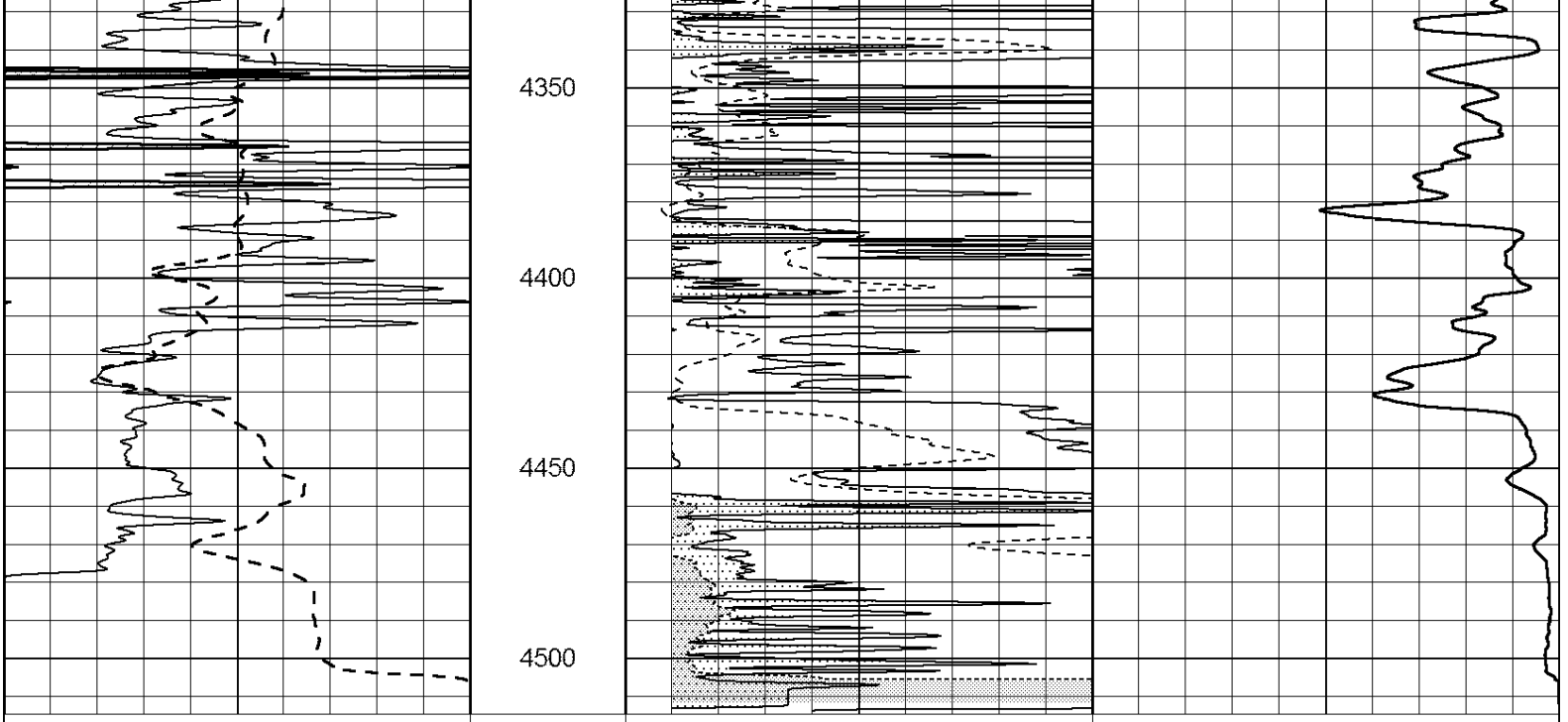

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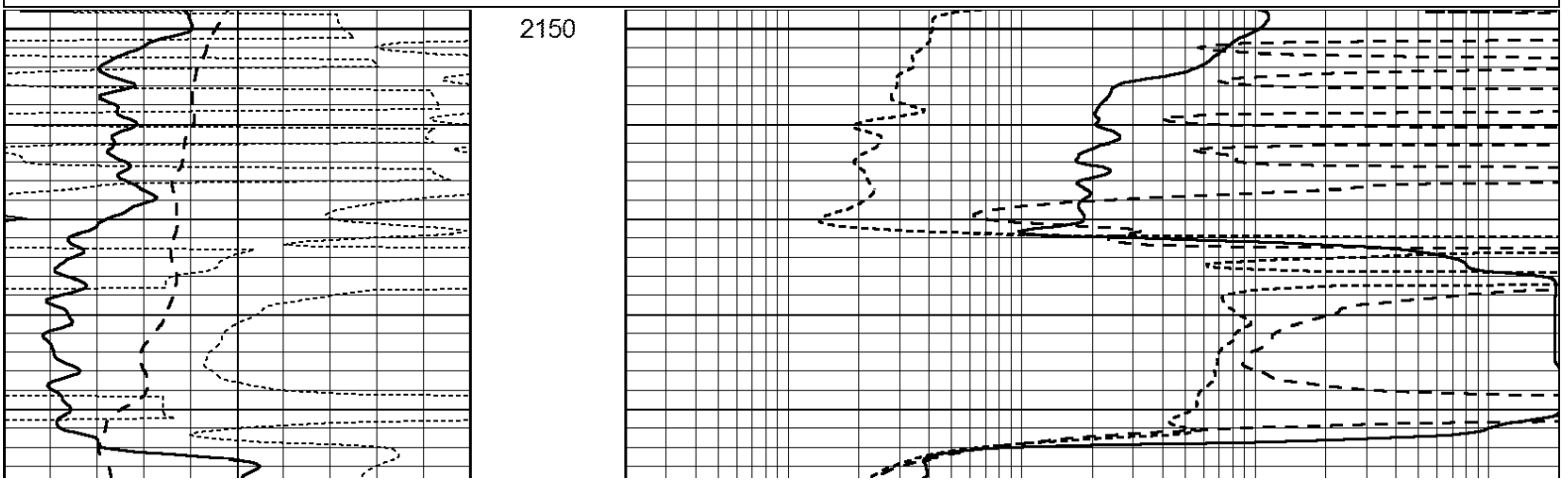
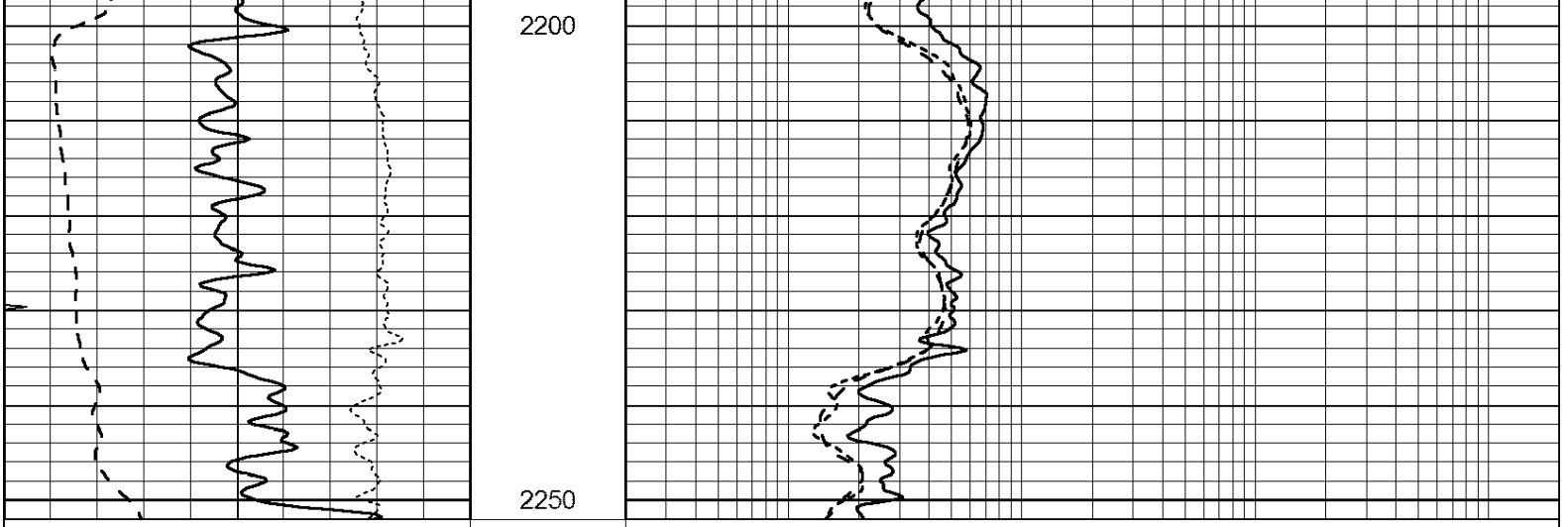
ANHYDRITE

Database File: 30891ddn.db
Dataset Pathname: pass3.2
Presentation Format: _dil
Dataset Creation: Sun Jan 17 18:51:28 2016 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240





0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

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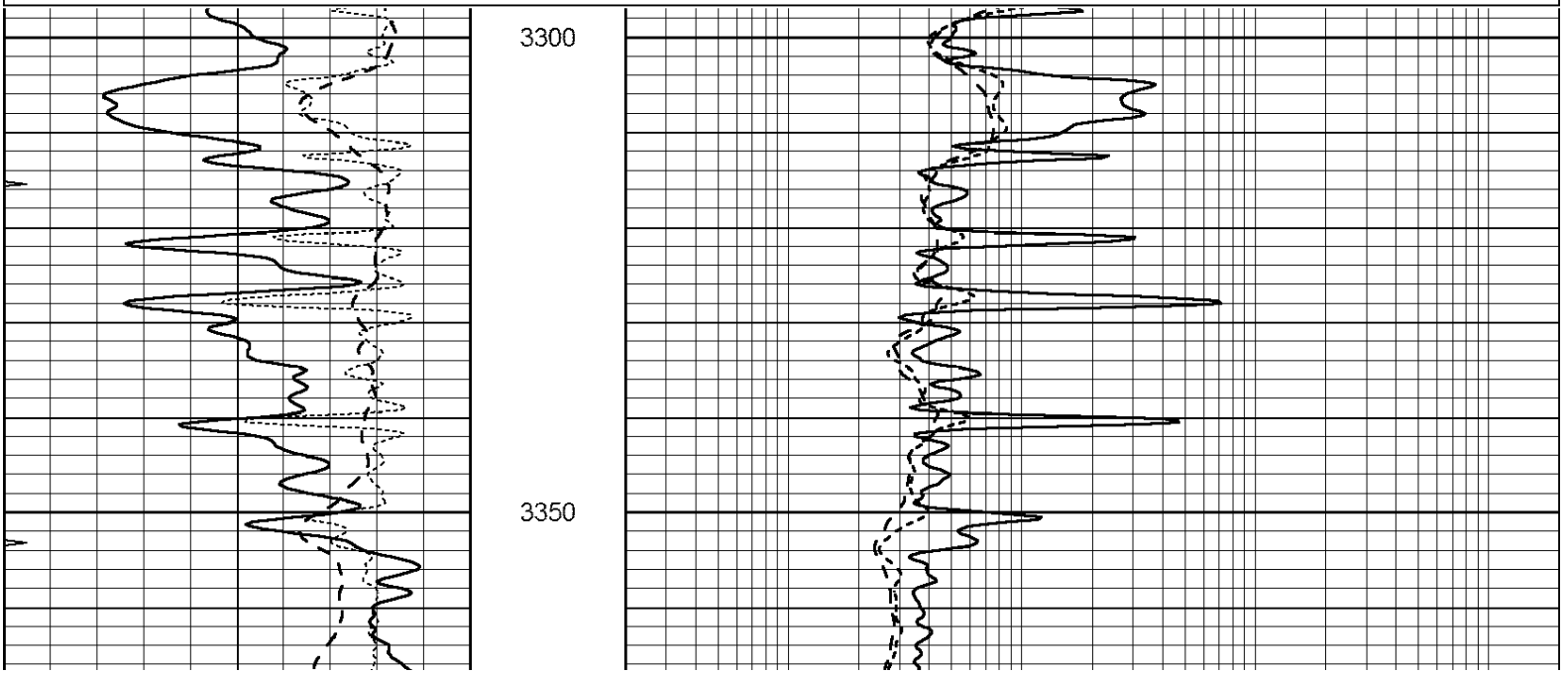
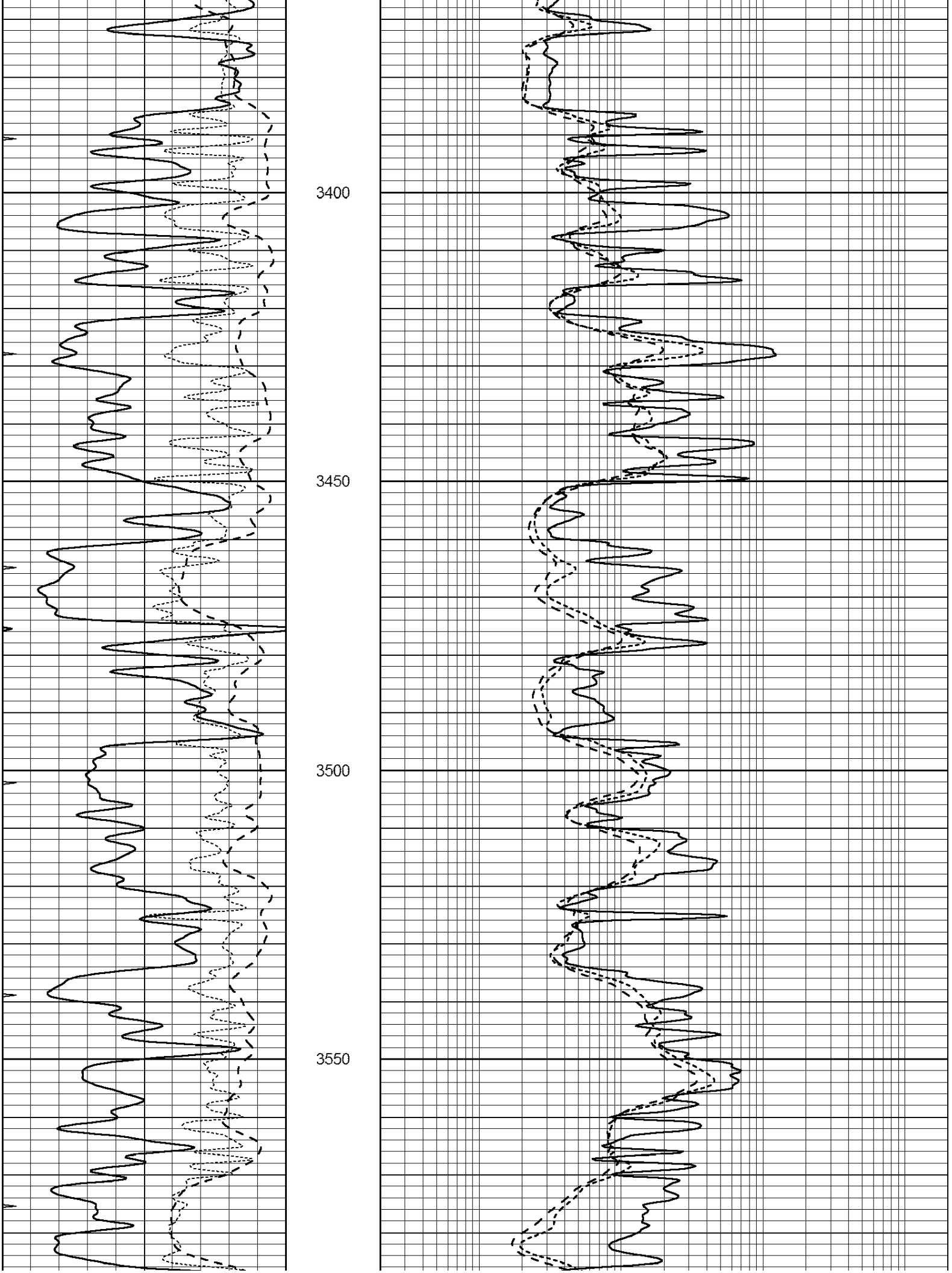
MAIN SECTION

Database File:	30891ddn.db
Dataset Pathname:	pass3.1
Presentation Format:	_dil
Dataset Creation:	Sun Jan 17 18:37:00 2016 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

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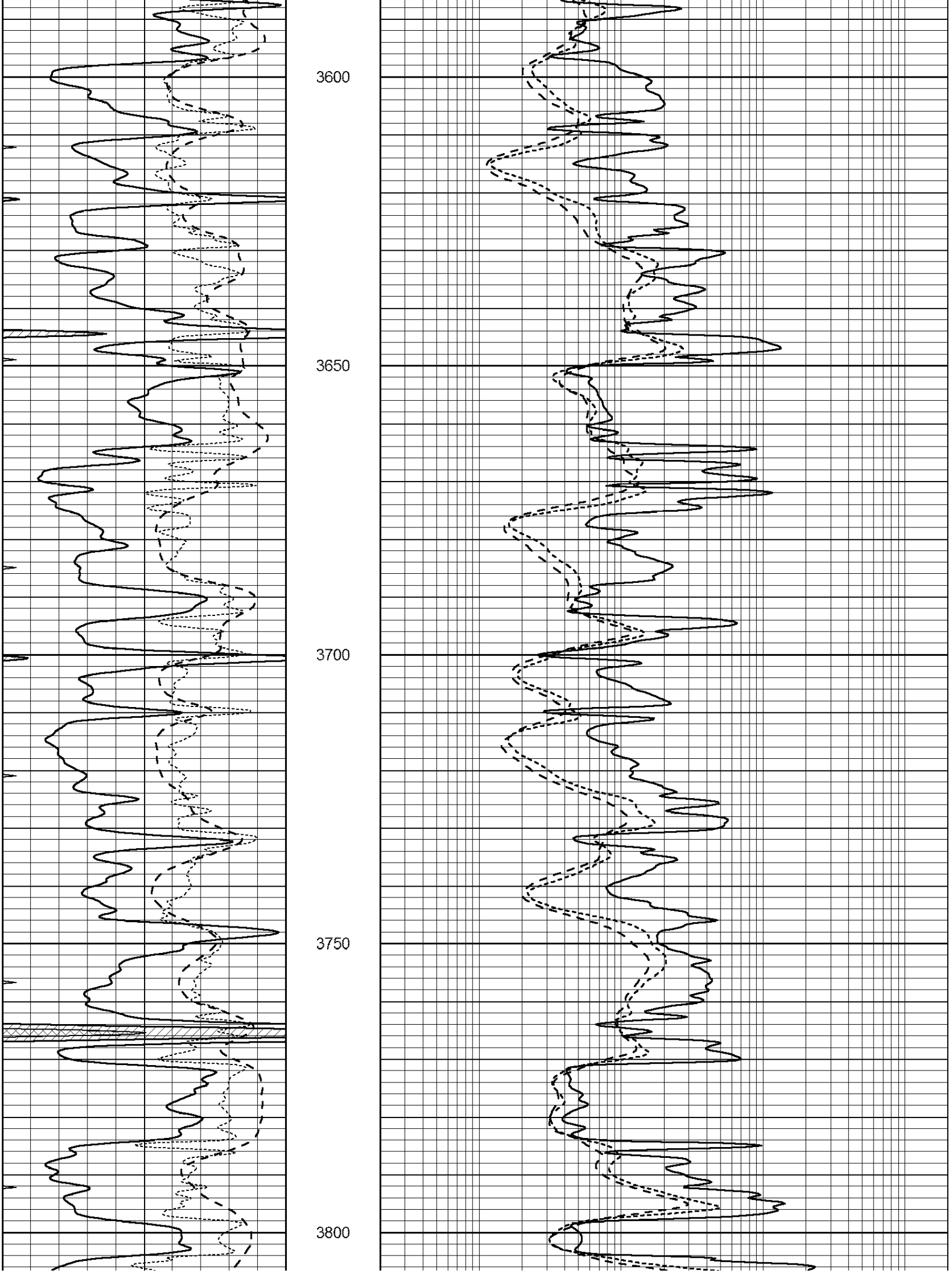
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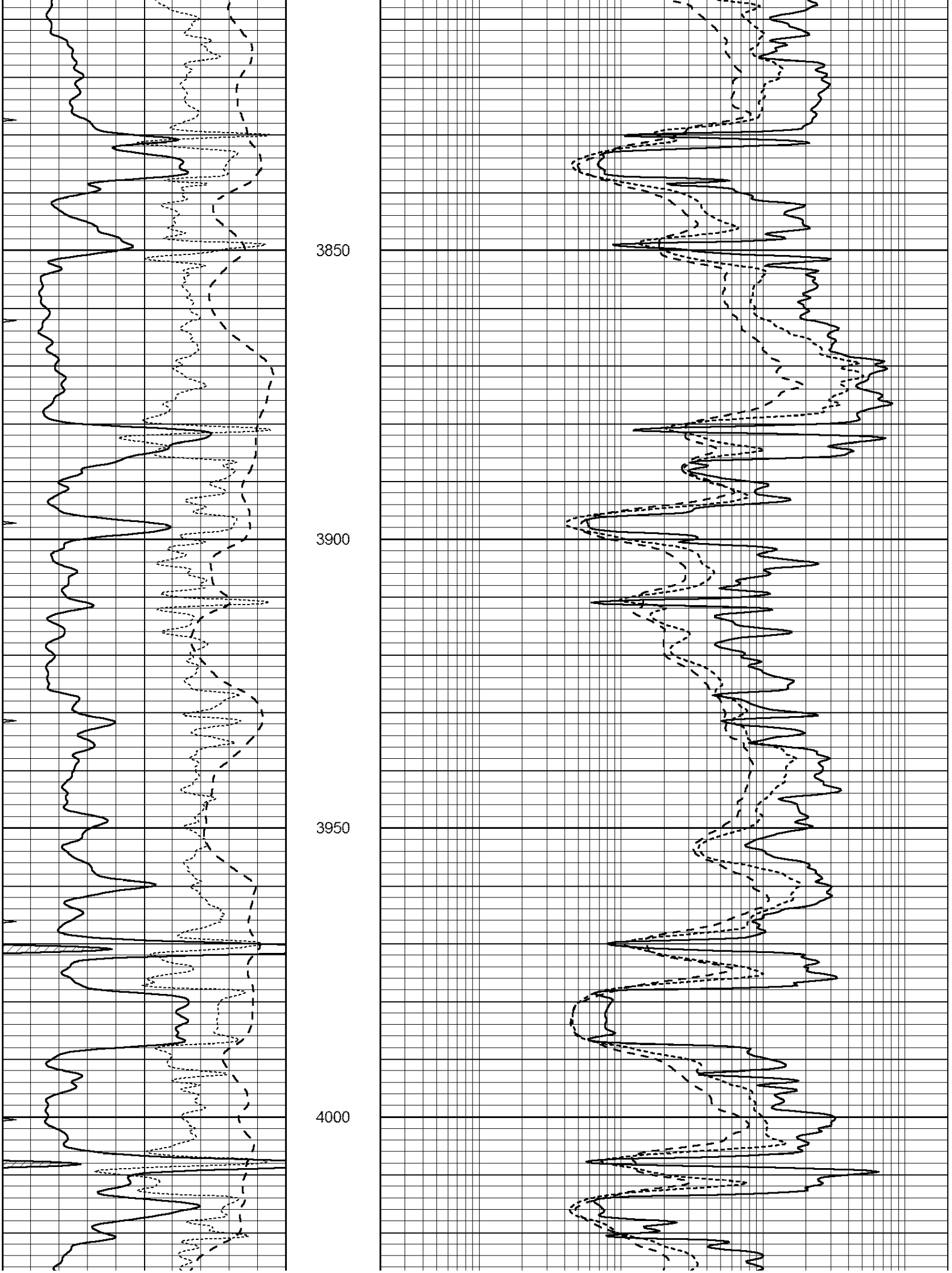
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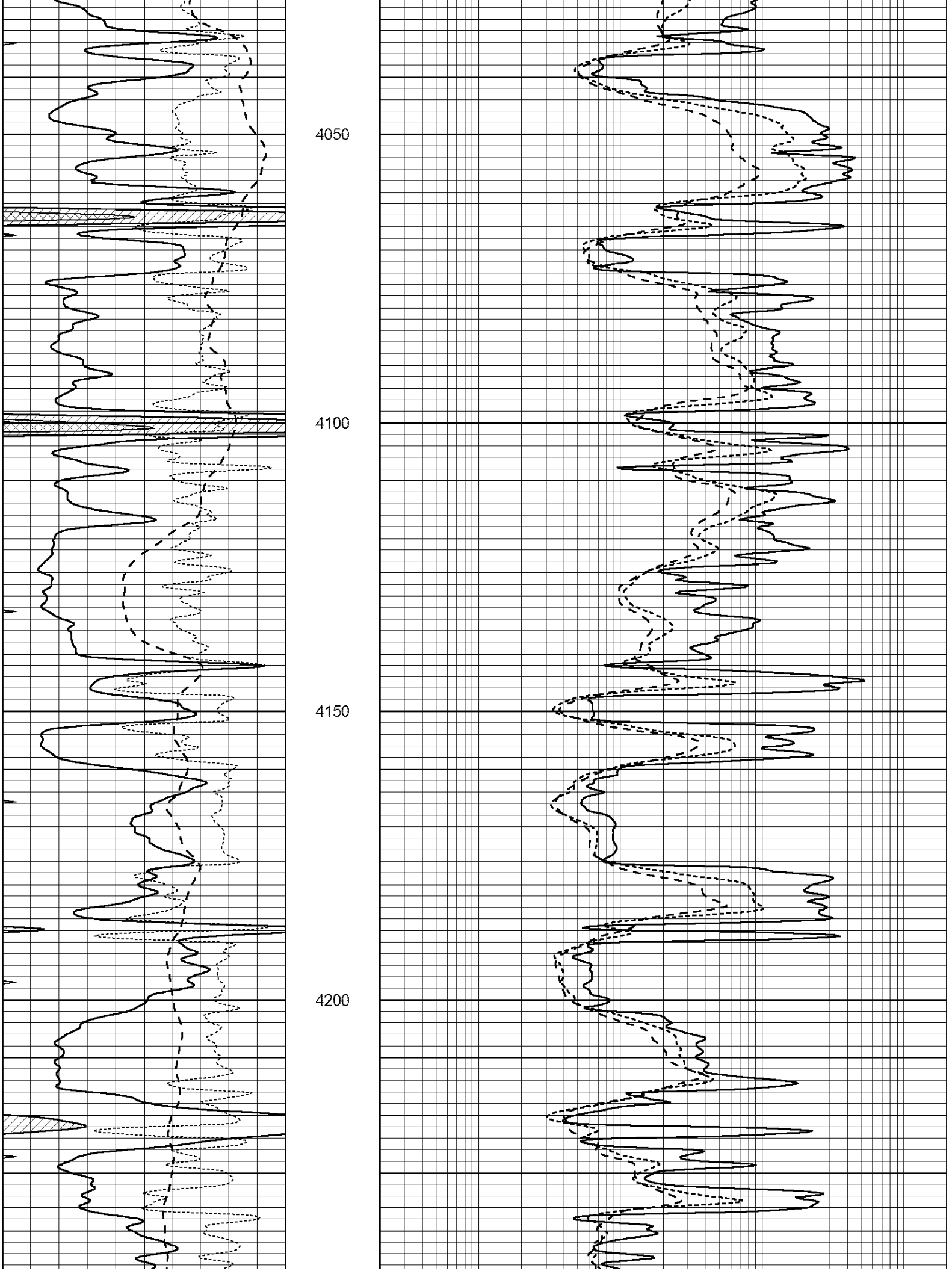
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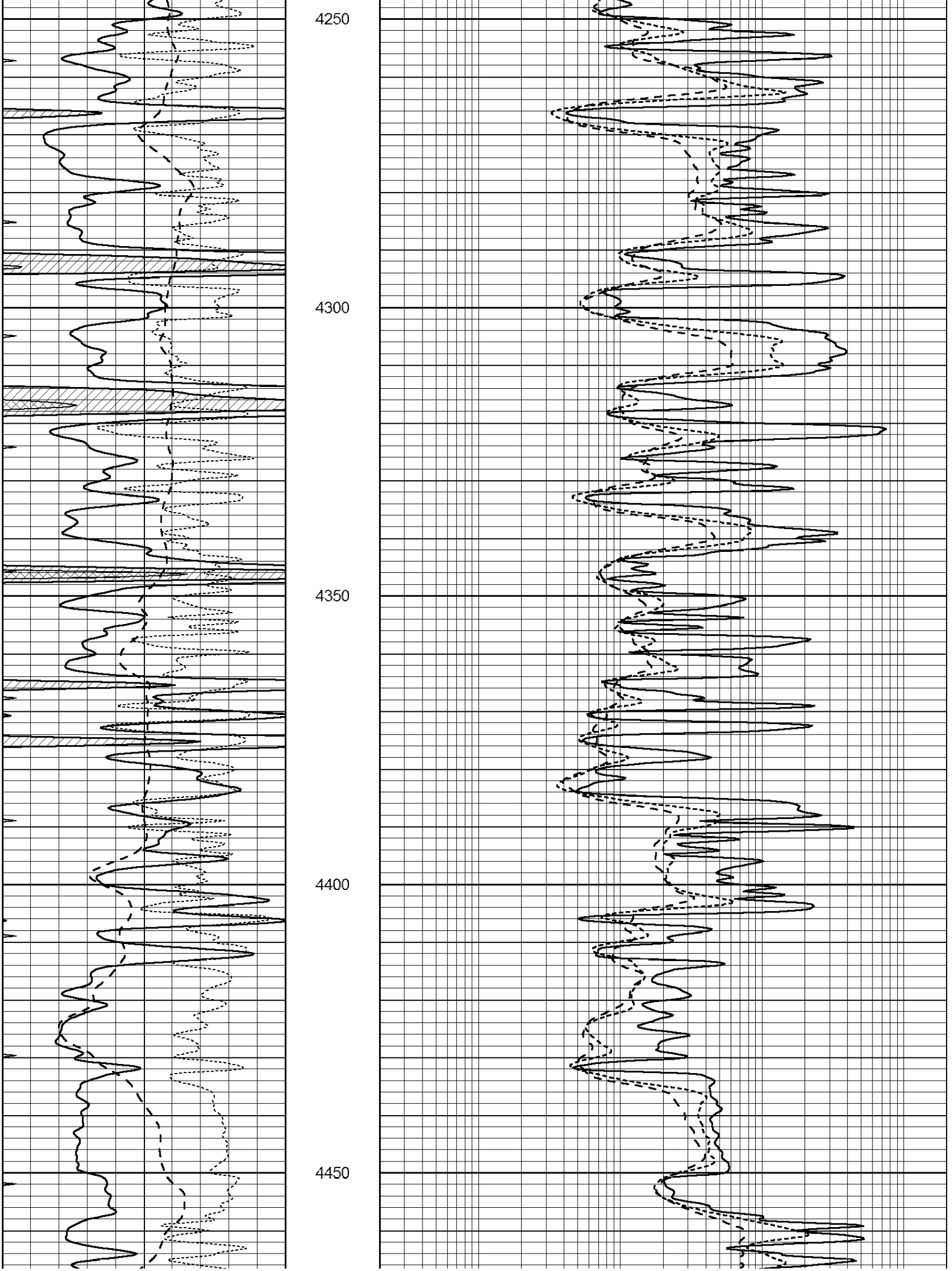
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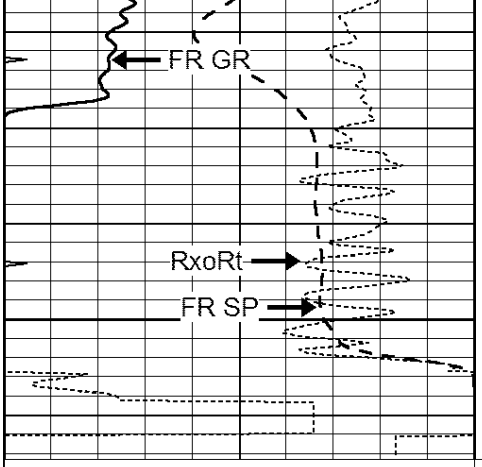

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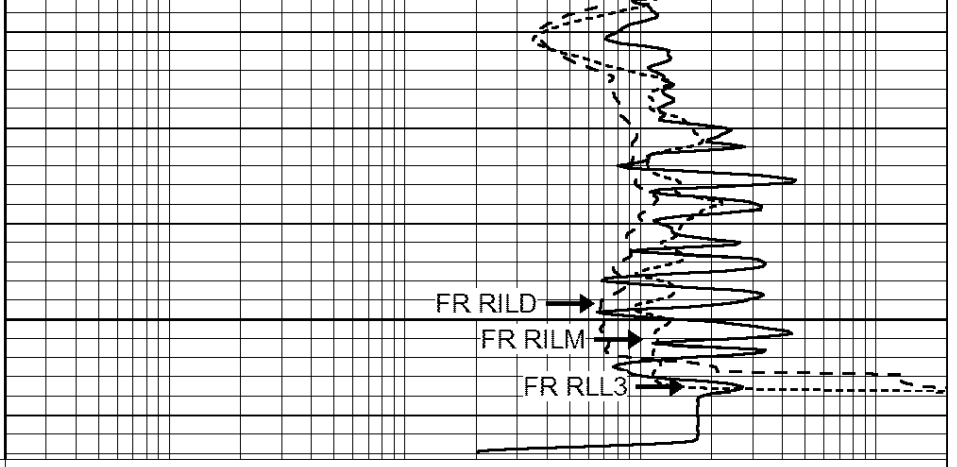
LTD 4509



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

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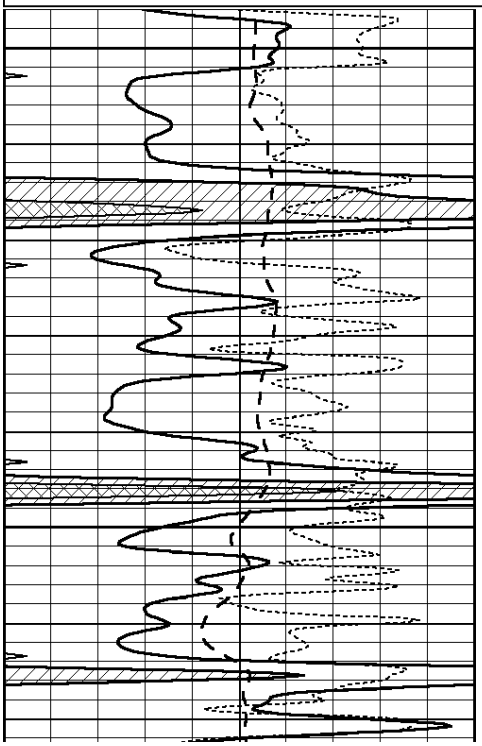
REPEAT SECTION

Database File: 30891ddn.db
Dataset Pathname: pass2.1
Presentation Format: _dil
Dataset Creation: Sun Jan 17 18:31:26 2016 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



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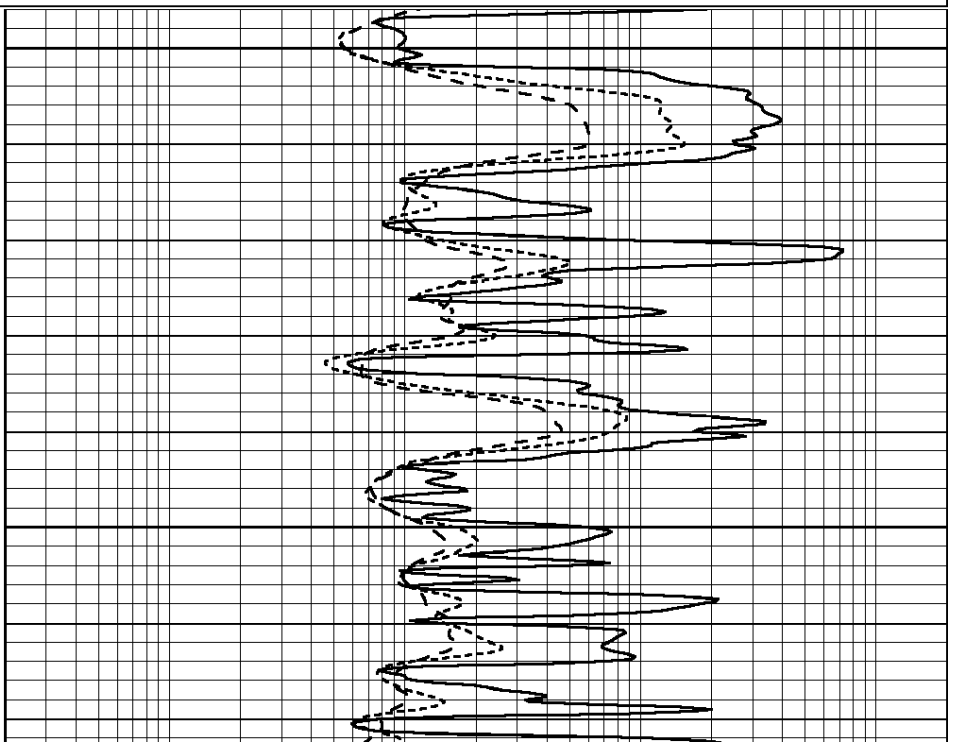

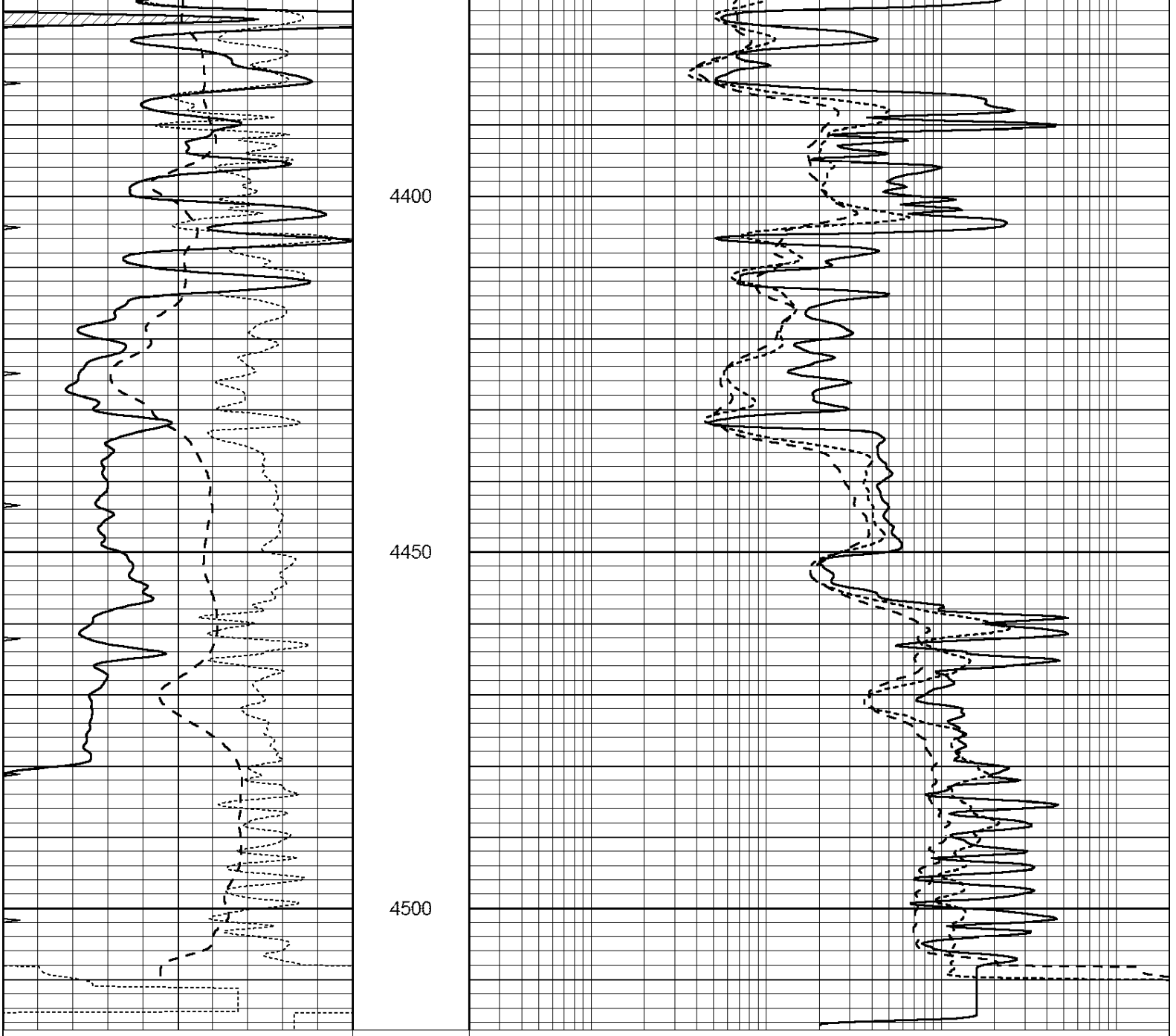

Calibration Report

Database File: 30891ddn.db
Dataset Pathname: pass2.1
Dataset Creation: Sun Jan 17 18:31:26 2016 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	PROBE8-DILG
Surface Cal Performed:	Sun May 10 19:54:09 2015
Downhole Cal Performed:	Mon Jul 28 11:08:27 2008
After Survey Verification Performed:	Mon Jul 28 11:08:27 2008

Surface Calibration

Readings	References	Results

Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	620.000	0.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	590.000	-12.000

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: GEAR5-GEARHART
Source / Verifier: /
Master Calibration Performed: Sun Dec 06 13:45:22 2015
Before Survey Verification Performed:
After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	798.83	465.02	cps
Aluminum	2.570	g/cc	178.16	323.19	cps

Spine Angle = 76.37 Density/Spine Ratio = 0.557

	Size		Reading	
Small Ring	7.00	in	1.47	V
Large Ring	14.00	in	3.01	V

Before Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

After Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc

g/cc g/cc

Compensated Neutron Calibration Report

Serial Number: 6I
Tool Model: G

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	1.00	cps	1.00	cps	1.0000
Long Space	1.00	cps	1.00	cps	1.0000

PRE-SURVEY VERIFICATION

	Detector	Readings		Measured	Target
1)	Short Space		cps		
	Long Space		cps	pu	pu
2)	Short Space		cps		
	Long Space		cps	pu	
3)	Short Space		cps		
	Long Space		cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings		Measured	Target
1)	Short Space		cps		
	Long Space		cps	pu	pu
2)	Short Space		cps		
	Long Space		cps	pu	pu
3)	Short Space		cps		
	Long Space		cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	GR6	
Tool Model:	OPEN	
Performed:	Thu Nov 12 05:47:01 2015	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	276.0	cps
Sensitivity:	0.4500	GAPI/cps